

Title (en)
Silicon contact lens

Title (de)
Silikon-Kontaktlinse

Title (fr)
Lentille de contact en silicone

Publication
EP 2613180 A1 20130710 (DE)

Application
EP 12000649 A 20120201

Priority
EP 12000649 A 20120201

Abstract (en)
The silicone contact lens having a radial cross section of an inner surface (1) of the contact lens and an edge region contour of the cross section between a turning point (6) and a convex outer edge (7), is claimed, where silicone contact lens is coated in a hydrophilizing manner. A water contact angle of the contact lens is less than 10[deg] . A minimum radius of the convex cross-sectional contour is 0.5 mm. A hydrophilizing layer consists of (meth)acrylic acid units, and has a thickness of 1 μ m. The edge region of the contact lens is 0.01-0.1 mm wide. The silicone contact lens having a radial cross section of an inner surface (1) of the contact lens and an edge region contour of the cross section between a turning point (6) and a convex outer edge (7), is claimed, where silicone contact lens is coated in a hydrophilizing manner. A water contact angle of the contact lens is less than 10[deg] . A minimum radius of the convex cross-sectional contour is 0.5 mm. A hydrophilizing layer consists of (meth)acrylic acid units, and has a thickness of 1 μ m. The edge region of the contact lens is 0.01-0.1 mm wide. An outer edge of the contact lens has an irregularity such that the contact lens has an average square deviation of 5000 μ m² associated with the outer edge according to a criterion of a lowest average square deviation. An independent claim is included for a method for producing a silicone contact lens.

Abstract (de)
Eine Silikon-Kontaktlinse weist einen radialen Querschnitt der Innenfläche der Kontaktlinse auf, dessen Randbereichs-Kontur zwischen einem Wendepunkt und der Außenkante konvex ist. Zu ihrer Herstellung wird ein Silikon-Vorläufermaterial zwischen eine weibliche und eine männliche Form eingebracht und polymerisiert, und die polymerisierte Kontaktlinse wird mittels einer diese quellenden Flüssigkeit aus der Form ausgelöst und ohne Randbearbeitung fertiggestellt.

IPC 8 full level
G02B 1/04 (2006.01); **B29D 11/00** (2006.01)

CPC (source: EP KR US)
B29D 11/00 (2013.01 - KR); **B29D 11/00057** (2013.01 - EP US); **G02B 1/00** (2013.01 - KR); **G02B 1/04** (2013.01 - KR);
G02B 1/043 (2013.01 - EP US); **G02C 7/04** (2013.01 - KR); **G02C 7/049** (2013.01 - US)

C-Set (source: EP US)
G02B 1/043 + **C08L 83/04**

Citation (applicant)
US 5080924 A 19920114 - KAMEL IHAB [US], et al

Citation (search report)
• [Y] US 6444145 B1 20020903 - CLUTTERBUCK TIMOTHY A [US]
• [Y] US 5466147 A 19951114 - APPLETON WILLIAM J [US], et al
• [Y] EP 0908476 A2 19990414 - KURARAY CO [JP]
• [XY] US 4285890 A 19810825 - MIZUTANI YUTAKA, et al
• [Y] DE 2414928 B1 19750605

Designated contracting state (EPC)
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BR 112013022754 A2 20200804; CN 104204863 A 20141210; CN 104204863 B 20160817; EP 2810107 A1 20141210;
EP 2985638 A1 20160217; EP 2985638 B1 20180110; ES 2474572 T3 20140709; ES 2659021 T3 20180313; IN 7222DEN2014 A 20150424;
JP 2014186340 A 20141002; JP 2014510946 A 20140501; JP 5913430 B2 20160427; KR 20140133830 A 20141120; PL 2613180 T3 20141128;
RU 2014135280 A 20160320; SG 11201404482P A 20141030; US 2015036100 A1 20150205; WO 2013083855 A1 20130613

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IN 7222DEN2014 A 20140828; JP 2013557143 A 20130201; JP 2014102517 A 20140516; KR 20147023895 A 20130201;
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